What is claimed is:

1. A liquid crystal display (LCD) panel, using dot inversion driving to present a video signal polarization arrangement spatially similar to line inversion driving on the panel, comprising:

a plurality of scan electrodes;

a plurality of data electrodes; and

a plurality of display units, each corresponding to a crossed scan electrode and data electrode and having a pixel electrode and a control transistor,

wherein gates of control transistors of two adjacent display units in a row between a first and second adjacent scan electrode are respectively connected to the first scan electrode and the second scan electrode, and

when dot inversion driving is completed for a frame on the LCD panel, display units in the same row of the frame have the same video signal polarization and display units in two adjacent rows of the frame present polarizations opposite to each other.

2. The LCD panel according to claim 1, wherein gates of control transistors of two adjacent display units in a column between two adjacent data electrodes are not connected to the same scan electrode.

3. The LCD panel according to claim 1, further comprising a common electrode, connected to each pixel electrode to form a liquid crystal capacitor for each display unit.

4. A driving method for an LCD panel including a plurality of scan electrodes, a plurality of data electrodes, and a plurality of display units, each corresponding to a crossed scan electrode and data electrode and having a pixel electrode and a control transistor, the driving method comprising the steps:

changing display unit arrangement on the LCD panel such that gates of control transistors of two adjacent display units in the same row are respectively connected to a first scan electrode and a second scan electrode, thus forming the LCD panel structure; and

performing dot inversion driving to the display units,

wherein when the dot inversion driving is completed for a frame on the LCD panel, all display units in the same row of the frame have the same video signal polarization and display units in two adjacent rows of the frame present polarization opposite to each other.

5. The driving method according to claim 4, wherein gates of control transistors of two adjacent display units in a column between two adjacent data electrodes are not connected to the same scan electrode.